Based Upon: PCT/EP2005/003694

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A mounting plate (10) for electronic components (12)~~, in particular with~~ having cooling conduits (16, 18) integrated in a plate body (14) for a cooling medium to flow through, wherein a fastening arrangement for mounting the electronic components is arranged on the plate body (14), the mounting plate comprising:

~~characterized in that~~

the fastening arrangement ~~has~~ having at least one holding element (25, 26) with a fastening screw thread (25.3, 26.5) and at least one first groove (20) or rib, ~~which is embodied~~ to be undercut, ~~extends~~ extending in a straight line in ~~the~~ an extension direction (A) of the mounting plate (10), and into which the at least one holding element (25, 26) ~~can be inserted~~ is insertable for fixing the component (12) in place.

2. (Currently Amended) The mounting plate in accordance with claim 1, wherein ~~characterized in that~~ the fastening arrangement has at least one second groove (22) or rib~~, which is embodied in the same way as~~ similar to the first groove (20) or rib and ~~extends~~ extending parallel [[in]] with respect to the first groove (20) or rib, ~~whose~~ with a distance (B) from the first groove (20) or rib [[is]]

substantially determined by ~~the~~ a length of extension (B) of the electronic component (12) to be mounted, which runs perpendicularly [[in]] with respect to the first or second groove (20, 22) or rib.

3. (Currently Amended) The mounting plate in accordance with claim 2, wherein ~~characterized in that~~ the fastening arrangement has at least one further groove (24) or rib extending parallel with the second groove (22) or rib, ~~which is embodied in the same way as~~ similar to the first groove or rib (20) and the second groove (22) or rib, which extends along the side (26) of the second groove (22) or rib facing away from the electronic component to be mounted at a distance (C) ~~from it,~~ which is less than the distance (B) between the first groove (20) or rib and the second groove (22) or rib.

4. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 3, wherein electronic components (12), which have screw holes, can be fastened by ~~means of~~ screws (28, 34) directly on the holding elements (25, 26) inserted into the grooves (20, 22, 24) or ribs, or can be fixed in place by ~~means of~~ strip-like holding elements (27, 28), which are attached one of indirectly [[or]] and directly to the holding elements (25, 26).

5. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 4, wherein the fastening arrangement comprises at least one angled sheet metal piece (30), and electronic components (12) ~~to be mounted, which have~~ having holes ~~whose~~ with a spacing between each other that is one of less than the distance (B) between the second groove (22) and the first groove (20), [[or]] and less than the distance of the ~~still~~ next further groove (24) from the first groove (20), can be clampingly fixed in place at least on one side by an angled sheet metal piece (30) ~~by means of~~ with at least one screw (32) engaging [[it]] at the holding element inserted into the corresponding groove (22).

6. (Currently Amended) The mounting plate in accordance with claim 5, wherein ~~characterized in that~~ the angled sheet metal piece (30) has a flat base plate (34) for placement against the mounting plate (10), and a clamping area (36), which is angled [[in]] with respect to it, for the clamping fixation of the electronic component (12) to be mounted.

7. (Currently Amended) The mounting plate in accordance with claim 6, wherein ~~characterized in that~~ the angled sheet metal piece (30) has at least one elongated hole (38)[[,]] which extends perpendicularly (D) [[in]] with respect to the direction (A) of extension of the second groove (22) or the still further groove (24), for receiving the screw (32).

8. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 7, wherein the holding element ~~can be~~ is a spring nut.

9. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 8, wherein at least one of the first groove (20), the second groove (22) ~~and/or~~ and the ~~still~~ next further groove (24) are embodied in one piece with the plate body.

10. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 9, wherein at least one holding element is embodied as a groove insert (26)[[,]] which has a base part (26.1)[[,]] ~~which can be inserted~~ insertable into one of the grooves (20, 22, 24), and

a top part (26.2) protruding from the groove (20, 22, 24), in ~~the~~ an inserted state of the groove insert (26)[[,]] the top part (26.2) has a fastening section (26.4) spaced apart from ~~the~~ a mounting level of the mounting plate (10), which ~~can be positioned~~ is positionable above a base part (12.1)~~, to be located under it,~~ of the component (12) to be fixed in place, wherein ~~the~~ a distance of the fastening section (26.4) is greater than ~~the~~ a thickness of the base part (12.1) in ~~the~~ a normal direction ~~of the normal line in~~ with respect to the mounting level, and ~~that~~ at least one threaded bore (26.5) is provided in the fastening section (26.4), into which an attachment screw (34)~~, which~~ that works together with the base part (12.1), can be ~~screwed~~ rotated for fixing the component (12) in place.

11. (Currently Amended) The mounting plate in accordance with ~~one of the preceding claims, characterized in that~~ claim 10, wherein at least one holding element is ~~made as~~ a sliding block (25) with a base part (25.1)[[,]] which can be pushed into one of the grooves (20, 22, 24), and a top part (25.2) protruding from the groove (20, 22, 24), and a threaded bore (25.3) is arranged in the top part (25.2) in ~~the~~ a normal direction ~~of the normal line in~~ with respect to the mounting level, on which a holding ~~means~~ for the component (12) can be screwed in place.

12. (Currently Amended) The mounting plate in accordance with claim ~~10 or~~ 11, wherein ~~characterized in that~~ the fastening arrangement has at least one holding strip (27)[[,]] which can be arranged transversely [[in]] with respect to the grooves (20, 22, 24) and is dimensioned ~~in such a way that it spans~~ to span the distance between two grooves (20, 22; 20, 24) and can be fixed in place by ~~means of~~ threaded bores (25.3, 26.3) in ~~its~~ end sections on both sides in at least one of the sliding blocks (25) ~~and/or~~ and groove inserts (26) pushed into the respective grooves (20, 22, 24).

13. (Currently Amended) The mounting plate in accordance with claim 12, ~~characterized in that~~ wherein at least one strip-like bridge (28) is ~~provided, which can be~~ displaceably ~~inserted~~ insertable at a distance from the mounting level between two holding strips (27), which are arranged on both sides of a component (12) parallel [[in]] with respect to each other, and has bores (28.1)[[,]] by ~~means of~~ which the component (12) can be fixed in place at ~~its~~ a base (12.1) by ~~means of~~ at least one attachment screw.

14. (Currently Amended) The mounting plate in accordance with claim 13, ~~characterized in that~~ wherein the bridge (28) has open slits (28.2) in both ~~its~~ end sections ~~in the direction~~ toward the holding strips (27), by ~~means of~~ which it is displaceably held on the holding strips (27).

15. (Currently Amended) The mounting plate in accordance with one of ~~claims 10 to~~ claim 14, wherein ~~characterized in that the~~ at least one of the holding strip (27) ~~and/or~~ and the bridge (28) ~~is provided with~~ has a row of threaded bores (27.1, 28.1) or fastening holes.

16. (Currently Amended) The mounting plate in accordance with claim ~~one of claims 10 to~~ 15, wherein at least one of ~~characterized in that~~ the holding strip (27) ~~and/or~~ and the bridge (28) is designed in an angular shape in cross section, or ~~is provided with~~ has at least one reinforcement rib.

17. (New) The mounting plate in accordance with claim 1, wherein electronic components (12), which have screw holes, can be fastened by screws (28, 34) directly on the holding elements (25, 26) inserted into the grooves (20, 22, 24) or ribs, or can be fixed in place by strip-like holding elements (27, 28), which are attached one of indirectly and directly to the holding elements (25, 26).

18. (New) The mounting plate in accordance with claim 1, wherein the fastening arrangement comprises at least one angled sheet metal piece (30), and electronic components (12) having holes with a spacing between each other that is one of less than the distance (B) between a second groove (22) and the first groove (20), and less than the distance of a next further groove (24) from the first groove (20), can be clampingly fixed in place at least on one side by an angled sheet metal piece (30) with at least one screw (32) engaging at the holding element inserted into the corresponding groove (22).

19. (New) The mounting plate in accordance with claim 1, wherein the holding element is a spring nut.

20. (New) The mounting plate in accordance with claim 1, wherein at least one of the first groove (20), a second groove (22) and a next further groove (24) are embodied in one piece with the plate body.

21. (New) The mounting plate in accordance with claim 1, wherein at least one holding element is embodied as a groove insert (26) which has a base part (26.1) insertable into one of the grooves (20, 22, 24), and a top part (26.2) protruding from the groove (20, 22, 24), in an inserted state of the groove insert (26) the top part (26.2) has a fastening section (26.4) spaced apart from a mounting level of the mounting plate (10), which is positionable above a base part (12.1) of the component (12) to be fixed in place, wherein a distance of the fastening section (26.4) is greater than a thickness of the base part (12.1) in a normal direction with respect to the mounting level, and at least one threaded bore (26.5) is provided in the fastening section (26.4), into which an attachment screw (34) that works together with the base part (12.1), can be rotated for fixing the component (12) in place.

22. (New) The mounting plate in accordance with claim 1, wherein at least one holding element is a sliding block (25) with a base part (25.1) which can be pushed into one of the grooves (20, 22, 24), and a top part (25.2)

protruding from the groove (20, 22, 24), and a threaded bore (25.3) is arranged in the top part (25.2) in a normal direction with respect to the mounting level, on which a holding for the component (12) can be screwed in place.

23. (New) The mounting plate in accordance with claim 10, wherein the fastening arrangement has at least one holding strip (27) which can be arranged transversely with respect to the grooves (20, 22, 24) and is dimensioned to span the distance between two grooves (20, 22; 20, 24) and can be fixed in place by threaded bores (25.3, 26.3) in end sections on both sides in at least one of the sliding blocks (25) and groove inserts (26) pushed into the respective grooves (20, 22, 24).

24. (New) The mounting plate in accordance with one of claim 10, wherein at least one of the holding strip (27) and the bridge (28) has a row of threaded bores (27.1, 28.1) or fastening holes.

25. (New) The mounting plate in accordance with claim 10, wherein at least one of the holding strip (27) and the bridge (28) is designed in an angular shape in cross section, or has at least one reinforcement rib.

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ABSTRACT OF THE DISCLOSURE

A mounting plate for electronic components, including cooling conduits that are integrated into a plate body and that are traversed by a coolant, and a fixing device for mounting the electronic components being located on the plate body. The fixing device includes at least one retaining piece and a first recessed groove or channel that extends in a linear manner in the direction of extension of the mounting plate. A retaining piece, which includes a fixing thread, for securing the component can be inserted into the groove or channel.